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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/775,250 02/11/2004		2/11/2004	Masaaki Togashi	118627	118627 1178	
25944	7590	08/24/2004		EXAM	EXAMINER	
OLIFF & B		E, PLC	THOMAS	THOMAS, ERIC W		
ALEXANDI		22320	ART UNIT	PAPER NUMBER		
·				2831		

DATE MAILED: 08/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/775,250	TOGASHI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Eric W Thomas	2831				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠)⊠ Responsive to communication(s) filed on 14 February 2004.						
·		s action is non-final.					
3)□	, -						
Disposit	ion of Claims						
5)□ 6)⊠ 7)⊠	4) ☐ Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,8,14 and 15 is/are rejected. 7) ☐ Claim(s) 2-7,9-13 and 16-30 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Applicati	ion Papers						
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 11 February 2004 is/ar Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 1.	re: a) \square accepted or b) \square objected or by \square objected drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority ι	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen		_					
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>2/04</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	(PTO-413) te atent Application (PTO-152)				

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DETAILED ACTION

Specification

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

2. Claim 1 is objected to because of the following informalities:

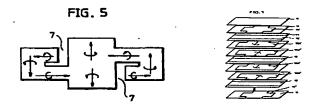
Claim 1, line 3, change "two types of, that is, first and second, internal conductor layers" to –two types of first and second internal conductor layers--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 8, and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Lee et al. (US 5,450,278).



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Lee et al. disclose in fig. 5 (& fig 7 for teaching the multilayer stack), a multilayer capacitor comprising: a dielectric layer and two types of first and second internal conductor layers insulated from each other by said dielectric layer and alternately arranged in a dielectric body, said multilayer capacitor characterized in that the first internal conductor layer is formed with at least one first cut part, the second internal conductor layer is formed with at least one second cut part, and due to said cut parts, each internal conductor layer is formed with at least two channel parts connected at an uncut end in the same plane and the channel parts adjoining each other in the same plane carry current flowing in the reverse directions.

Regarding claim 8, Lee et al. suggest in fig. 5, and col. 4 lines 30-46, the first and second cuts parts for forming the channel parts in the first and second internal conductor layers adjoining each other across the dielectric layer are formed at substantially the same positions between the internal conductor layers adjoining each other.

Regarding claim 14, Lee et al. disclose the width of the uncut ends is "substantially" equal to the width of the channels.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. (US 5,450,278).

Lee et al. disclose the claimed invention except for the width of the cut parts is 100 to 200 µm. It would have been an obvious matter of design choice to form the cut parts having a width of 150 µm, since such a modification would have involved a mere change in the size of a component, a change in size is generally recognized as being within the level of ordinary skill in the art. *In re. Rose, 105 USPQ 237 (CCPA 1955*).

Allowable Subject Matter

- 8. Claims 2-7, 9-13, and 16-30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. The following is a statement of reasons for the indication of allowable subject matter: The prior art does not teach or fairly suggest (taken in combination with the other claimed features) a multilayer capacitor wherein the first lead part is at a position

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different from the second lead part (claims 2-7, 9-10, and 16-30) and uncut ends of corresponding cut parts across the dielectric layer are formed at opposite sides along the longitudinal direction of the cut parts (claims 11-13).

Conclusion

In order to ensure full consideration of any amendments, affidavits, or declaration, or other documents as evidence of patentability, such documents must be submitted in response to this Office action. Submissions after the next Office action, which is intended to be a final action, will be governed by the requirements of 37 CFR 1. 116 which will be strictly enforced.

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - 6,765,781 discloses a multilayer capacitor having similar electrode structure.
 - 6,768,630 discloses a multilayer feedthrough capacitor.
 - 6,661,640 discloses a multilayer ceramic component having electrodes, wherein the current flows in the same direction within the electrodes.
 - 4,814,940 discloses a ceramic component having a electrode having multiple channels. The channels have current flowing in the same direction.
 - JP 8-97070 Japanese publication listed in the specification.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric W Thomas whose telephone number is 571-272Art Unit: 2831

1985. The examiner can normally be reached on M,Tu,Sat 9 am - 9:30 pm; W, Th, F 6 pm -10:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

8/21/04

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